Centre for Work Health and Safety

Australian WHS Survey

Spring 2023 edition



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Executive summary

The Australian WHS Survey (the Survey) is an initiative from the Centre for Work Health and Safety (the Centre). It is the first of its kind in Australia and provides a platform for workers from across the nation to share their first-hand experiences of Work Health and Safety (WHS).

The Survey helps characterising the current state of WHS in Australia in three aspects. It provides:

- the WHS profile of Australian workers, e.g., their exposure to physical and psychosocial hazards, including harassment, their awareness of WHS rights and responsibilities, and their feelings of empowerment to participate in, and influence, health and safety at work;
- **the WHS profile of Australian workplaces** through respondents' perceptions of their workplace's existing WHS policies and systems, demonstrated WHS commitment and practices, and views about the barriers and potential enablers to improve WHS in their workplaces;
- **the new or emerging WHS issues** observed or experienced by the respondents and their suggestions for potential harm prevention measures.

This information is critical in assisting Australian businesses, WHS regulators and affiliated bodies to prevent workers from being harmed in the workplace. The Survey will be open for response every six months. This 2023 Spring Edition provides insights based on data collected in August 2023, and insights based on comparisons made with data collected for the 2023 Autumn Edition.

Australian WHS Survey Demographics







Exposure to hazards



81% exposed to MSDrelated hazards on a weekly basis (120%)



2/3 of workers still reporting Burnout - Health care and Education ranking highest.



16% exposed to bullying and harassment at work on a weekly basis (111%)

Exposure to psychosocial hazards

21.3% Low job fairness (\downarrow 7.1%) 22.0% Low job control (15.2%) 22.8% Low job security $(\downarrow 7.9\%)$ 23.1% High job demand (\downarrow 12%)

Sexual harassment in the workplace



8.8% have experienced sexual harrassment 20% would never report the

incident



50% want change to policy 5% who reported saw change to policy

LGBTQIA+

(19.1%)

40% of those who reported saw no change

Respondants were more likely to experience sexual harassment if they were:



Workplaces and their WHS

Greater confidence in WHS systems in place

Greater confidence in WHS commitment of workplaces

Top 3 enablers for good WHS -Strong leadership and

- commitment
- -Active risk assessment and management
- -Training and education



Top 3 barriers to good WHS -lack of time and resources -Other priorities -cost of setting up good WHS



Top 3 drivers for good WHS -More valued by workers' -Thought that someone might get seriously hurt -Impact on business' reputation

The following findings are of particular importance.

Higher exposure to hazards associated with MSD, lower exposure to psychosocial hazards and harassment.

A total of 1,493 participants completed the survey between 1st and 31st August 2023, an increase of nearly 50% from the 2023 Autumn Edition.

While the survey is not representative of the Australian workforce, when compared to the 2023 Autumn Edition, results showed a higher prevalence of workers' exposure to hazards associated with Musculoskeletal Disorder (MSD) and a lower prevalence of exposure to harassment and psychosocial hazards. Over 81% of participants were indeed exposed to at least one form of MSD-related hazards on a daily or weekly basis, an increase of approximately 20% compared to the Autumn edition six months ago.

In contrast, while more than half of participants (769 or 51.5%) reported having experienced bullying and/or harassment at work at least once since employment, results showed a systematically lower prevalence of exposure to nearly all forms of harassment in comparison to six months ago. This included exposure to verbal harassment (53.3% vs 63.5% in Autumn), sexual (17.2% vs. 24.7%, respectively), physical (11.2% vs. 20.0%, respectively) and discrimination (23.8% vs. 25.8% respectively).

Participants also reported lower prevalence of exposure to psychosocial hazards: high job demand (23.1% vs. 28.4% in Autumn), low job control (22.0% vs. 27.2%), low job security (22.8% vs. 30.7%), and low effort-reward fairness (21.3% vs. 35.1%). As a result, a lower proportion of participants was found to be 'at risk' of psychosocial harm (7.5% vs. 16.3%).

While the prevalence of exposure to psychosocial hazards decreased, the prevalence of burnout remains at a high level with two out of three participants feeling burnout (63.4%), similar to the Autumn's proportion.

Little action taken after the occurrence of sexual harassment

Female workers, young workers, and those working in small/micro businesses were the groups found most likely to experience sexual harassment. This is consistent with findings from the previous edition and other older reports (the National inquiry into sexual harassment in Australian workplaces in 2020¹).

Results showed that nearly 4 out of 10 victims of sexual harassment would systematically report the incident, while 2 out of 10 would never do so. The greatest reason for not reporting

¹ Australian Human Rights Commission. 2020. Respect@Work: National Inquiry into Sexual Harassment in Australian Workplaces.

sexual harassment was fear: fear of not being taken seriously, fear of the potential negative impact on the relationships at work, or on the career more generally.

Interestingly, while 1 out of 2 victims of sexual harassment wishes incidents would lead to changes in existing policies, only 1 out of 20 (of those who actually reported the incident) witnessed real changes in existing policies, and 4 out of 10 witnessed no changes of any kind.

Greater confidence in workplaces' WHS systems and commitment – lack of time and resources still the greatest barrier to good WHS

Participants felt more confident about the WHS systems and practices in place in their workplace, and about their workplace's commitment to WHS, in comparison to the previous edition.

The most common barriers to good WHS were similar to those reported in Autumn: the lack of time or resources came first (45%), followed by the de-prioritisation of WHS over other business priorities (38%) and the cost implications of setting up good WHS (31%). These 3 top barriers were consistent across sectors and business sizes.

Training and education (48%), strong leadership and commitment (45%), and active risk assessment and management (42%) were also consistently selected across sectors and business sizes as the top three enablers of good WHS. Workers of the Health care sector were an exception as they preferred communication and consultation as the top enabler of good WHS for their sector.

Finally, WHS being more valued by workers, the potential impact of WHS on the reputation of the business, and the thoughts of someone getting seriously hurt, were found as the top drivers of good WHS overall. WHS being more financially rewarding, and simpler to understand were the top drivers for workers in Agriculture.

Workers working from home only (WFH), working from the office/multiple work site(s) and those in hybrid arrangements experience different WHS realities.

Two out of three participants reported working from the office/multiple work site(s), which is an increase compared to the 58.8% found in the Autumn Edition, six months ago. In contrast, only 3.7% of participants reported working from home only (WFH), which is a decrease compared to the 4.6% of the last edition. There was also a decrease in the proportion of participants worked in a hybrid way, that is flexibly, 28.0% compared to the 32.9% of the previous edition. All together, these results could indicate that workers have initiated their return to the office.

While workers from the office/multiple work site(s) were the ones most likely to experience verbal harassment, workers WFH were found significantly more likely to experience physical

abuse/harassment than workers from the office/multiple work site(s) or those working in hybrid arrangements. They also expressed lower level of WHS awareness than workers from the office/multiple work site(s), and felt less confident about their workplace's WHS system than those working in hybrid arrangements. These results support well documented concerns for this group of workers due to the challenge in setting the boundaries between work and personal life, and higher risk of domestic violence as well as higher prevalence of alcohol consumption than other work arrangements (from the office/multiple work site(s), or hybrid).

Another call for prioritisation of WHS for Health care workers

The largest cohort of participants came from the Health care sector. Similar to our findings in Autumn, this sector was among the top 3 showing the highest prevalence of exposure to harassments (particularly verbal, psychological and discrimination), and to nearly all major psychosocial job quality hazards (including high job demand, low job control and low effort-reward fairness). While the sector showed the second highest level of WHS awareness (rank second behind the Construction sector), it came fifth (i.e. before last, among the six sectors being compared) in terms of WHS empowerment. In a similar vein, Health care workers were the least appreciative of their workplace's WHS system and commitment to good WHS, ranking sixth and last in our comparison.

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Background

Overview of the survey

The Australian WHS Survey (the Survey) is administered by the NSW Government's Centre for Work Health and Safety (the Centre), a collaborative research body that drives a smarter approach to the way we think and act about work health and safety.

The Survey is the first of its kind in Australia; it captures workers' experiences, perspectives and views about WHS and their perception of WHS practices existing in their workplace. It informs about:

- the current WHS profile of Australian workers, that is, their exposure to physical and psychosocial hazards, WHS awareness and empowerment;
- the current WHS profile of Australian workplaces, that is, existing WHS systems and practices, WHS commitment, barriers, and enablers;
- new and emerging WHS issues and potential preventative measures that might be considered in the workplace;
- at-risk sectors, including characteristics about workers and workplaces who may be a greater risk of experiencing WHS issues; and
- leading indicators of strong WHS practices.

The Survey provides a relevant, current and robust assessment of the WHS landscape in Australia and will be used to assist the Centre, Australian businesses, WHS regulators, and other affiliated bodies, in their respective journey to prevent workers from being harmed.

This 2023 Spring Edition collected data through a survey open in August 2023 to people who were over 18 years of age, currently living in Australia, and had worked in Australia in the previous six months. The Survey will be open for response every six months. This 2023 Spring Edition also provides insights from comparisons made with data collected for the precedent 2023 Autumn Edition.

Method

Survey design

The Survey considered five sections including:

- Demographic characteristics with five questions about the participant's gender, age group, highest education attainment, identification to one or more of the diversity groups (LGBTQIA+, Aboriginal and/or Torres Strait Islander, Culturally and/or linguistically diverse, Migrant or temporary resident, People living with disability); and language spoken at home.
- Employment characteristics, with seven questions about the participant's role (worker, manager or executive etc), employment's type (permanent, fixed-term or casual etc), location (the state where they had most working hours), sector of employment, organisation's size (micro, small, medium or large), employer's type, and working structure (work from home only, office/work site(s) only or hybrid).
- Worker's WHS profile, covering leading indicators to assess exposure to physical and psychosocial hazards at worker level with questions from validated tools including Occupational Health and Safety Vulnerability measure (OHSVM) developed by Lay et al. 2016², and the Psychosocial Job Quality (PJQ) Measure developed by Butterworth et al. 2011³. This 2023 Spring Edition also included four questions enquiring the reporting of bullying and harassment.
- Workplace WHS profile, with questions from the OHSVM about workplace policies and procedures for WHS, the workplace commitment to WHS, and questions about barriers to, enablers of and drivers of good WHS practices.
- Future of work, with questions about any new or emerging WHS issues (e.g. new hazard, new work style, new technology, new legislation) that worker experienced or witnessed in the past six months.

² Lay, A. M., Saunders, R., Lifshen, M., Breslin, C., LaMontagne, A., Tompa, E., & Smith, P. (2016). Individual, occupational, and workplace correlates of occupational health and safety vulnerability in a sample of Canadian workers. American Journal of Industrial Medicine, 59(2), 119-128. doi: 10.1002/ajim.22535

³ Butterworth, P., Leach, L. S., Strazdins, L., Olesen, S. C., Rodgers, B., & Broom, D. H. (2011). The psychosocial quality of work determines whether employment has benefits for mental health: results from a longitudinal national household panel survey. Occupational and Environmental Medicine, 68(11), 806-812. doi: 10.1136/oem.2010.059030

Participants

The Survey was distributed online via the Qualtrics XM platform and open to all people who met the following inclusion criteria:

- over 18 years of age,
- currently living in Australia, and
- worked in Australia in the last six months.

The Survey was open from 1 to 31 August 2023.

The Survey was promoted following a range of channels, including: the use of organic and paid advertising on social media accounts owned by the Centre, along with direct email to mailing lists established by the Centre. The Survey was also advertised on NSW Government webpages, in NSW Government newsletters and on NSW Government-owned social media accounts. Intermediary organisations were also utilised to distribute the Survey amongst their networks (see Appendix B for a summary of all distribution channels utilised and their reach). Upon completion of the Survey, respondents were offered a lottery-style incentive that gave them a chance to win a \$500 gift card.

Ethical and privacy considerations

Participation in the Survey was on a voluntary basis, and respondents' consent was implied by their decision to complete it. Prior to undertaking the Survey, participants were provided information about the Centre, the inclusion criteria for participation, the risks and benefits of completing the Survey, and how the data collected would be analysed, reported on, stored and used. The Survey included information about psychological support services available, including Lifeline and Beyond Blue, in the event that participation caused distress or discomfort. Information gathered in the Survey was de-identified at the point of analysis and managed in accordance with the Privacy and Personal Information Protection Act 1998 (PPIP Act) and the Health Records and Information Privacy Act 2002 (HRIP Act).

Analysis

WHS hazards

The validated tool OHSVM developed by Lay et al., 2016 was used to capture worker's exposure to hazards, their awareness and empowerment in WHS and their workplace policy and procedure or system for good WHS practice. The tool consists of a sub-scale Exposure to hazards including 9 statements asking participants to rate their frequency of exposure to various hazards at their workplace (ranging from never, once a year, every 6 months, every 3 Page **4** of **64**

months, every month, every week to every day). In addition to the measure of 'exposure to hazard' using Lay et al. 2016 method, we included an additional measure of participants weekly/daily exposure to any of the nine hazards listed, and participants weekly/daily exposure to musculoskeletal disorder related hazards. The latter considered ratings to the statements: 'Manually lift, carry, or push items heavier than 20 kg at least 10 times a day', 'Do repetitive movements with your hands or wrists (packing, sorting, assembling, cleaning, pulling, pushing, and typing) for at least 3 hours during the day', 'Work in a bent, twisted, or awkward posture', 'Work at a height that is 2 metres or more above the ground or floor, 'Stand for more than 2 hours in a row'.

Regarding exposure to psychosocial hazards, the validated Psychosocial Job Quality Index (PJQI) was used to provide measures for (1) Job demands and complexity, (2) Job control, (3) Job security and (4) Effort to reward fairness. The method published by Butterworth et al. 2011 and Collie et al. 2017 was used to identify participants the most at-risk of psychosocial harm based on their exposure to 'high' job demand, 'low' job control, 'low' job security and 'unfair' effort-reward.

All other indices were calculated following the method described in the first edition of the Australian WHS Survey, i.e. the 2023 Autumn Edition (see Appendix C).

Quantitative Analysis

Descriptive statistics including count and percentage (for categorical variables) and mean value (for index score variables) were used to analyse the quantitative data. Chi-square and fisher exact tests were employed to test for statistically significant difference in the distribution of exposure to WHS hazards across sub-groups of demographic and employment characteristics. T-test and ANOVA test were used for statistical comparisons between/across groups in the index scores (including burnout, WHS awareness, empowerment, workplace WHS system score, and workplace commitment to WHS score). All quantitative analyses were conducted using R statistical package in RStudio.

Qualitative Analysis

Open-ended questions in the Survey were analysed thematically. Responses were first analysed to identify key and recurring themes or concepts. These themes or concepts were then used to develop a thematic framework. This process was inductive, meaning the themes were iteratively constructed based on the responses themselves.

Limitations

The Survey's sample is not considered to be representative of Australia's labour force, even though it contains comparable proportions of respondents to labour force data across age groups and some major industries. The Survey was disseminated online and promoted via multiple channels, including social media and WHS events, with a more focused presence in NSW. As a result, NSW was more represented than other states/territories.

Results

Participants' profile

There was a total of 1,493 valid responses to the Survey. This was a significant increase of nearly 50% in the number of responses in comparison to the previous edition (1,017 valid responses). Demographic and employment characteristics of participants are presented in Table 1. Of 1,493 participants, the majority were females (847 or 56.5%), which is nearly 9% more than the female representation in the entire Australian work force in July 2023.

All workers aged 18 years or over in Australia were eligible to take part in the Survey. Those in the age group of 35-44 years accounted for the largest proportion (31.6%), followed by those aged between 25-34 years (29.2%) and those aged between 45-54 years (19.4%). These are also the age groups with the largest proportions in current Australian work force.

The Survey's cohort seems to show a higher level of education than reflected in the Australian workforce, with 686 or 45.8% of participants who completed a bachelor or postgraduate degree, approximately 12% more than in the Australian workforce. Similarly, only 168 or 11.2% of participants had completed year 12 or lower, which is 20% lower than the national proportion.

Those working in NSW were the most represented (72.8%), followed by those working in Victoria (7.7%). Participants from Tasmania and Northern Territory were the least represented, accounting for 0.9% and 1.7% of the Survey's cohort, respectively.

At-risk communities were relatively well represented, with 109 (6.8%) people living with disability, 118 (7.4%) migrants or temporary residents, 132 (8.2%) LGBTQI+, 141 (8.8%) Aboriginal and/or Torres strait islanders, and 165 (10.3%) people of culturally and/or linguistically diverse background. A majority of participants reported speaking English at home (86.8%).

	This Survey		Previous Su	rvey
	n	%	n	%
Gender				
Male	613	40.9%	495	49.2%
Female	847	56.5%	472	46.9%
Others	38	2.5%	39	3.9%
Age groups				
18 to 24	91	6.1%	63	6.3%
25 to 34	437	29.2%	285	28.3%
35 to 44	474	31.6%	272	27.0%
45 to 54	291	19.4%	216	21.5%
55 to 64	175	11.7%	141	14.0%
65 or over	20	1.3%	24	2.4%
NA	10	0.7%	5	0.5%
Education				
Postgraduate Degree	268	17.9%	181	18.0%
Bachelor degree	418	27.9%	240	23.9%
Diploma/Trade certificate	617	41.2%	434	43.1%
Year 12 or below	168	11.2%	139	13.8%
Diversity				
LGBTQIA+	132	8.2%	146	14.5%
Aboriginal and Torres Strait Islander	141	8.8%	135	13.4%
CALD	165	10.3%	142	14.1%
Migrants	118	7.4%	79	7.9%
People living with disability	109	6.8%	96	9.5%

Table 1. Demographic characteristics of the participants in the Australian WHS Survey for the 2023 Spring Edition (this Survey) and the 2023 Autumn Edition (previous Survey).

In terms of employment characteristics, participants working in the Health Care and Social Assistance sector (*Health care sector here after*) accounted for the largest proportion 15.9% (or 238 participants), followed by Construction (9.7% or 145 workers) and Education and Training (*Education hereafter*) (8.2% or 123 workers). Industries with the least representation were Information Media and Telecommunications (1.0%), Rental, Hiring and Real Estate Services (1.1%) and Wholesale Trade (1.7%).

Most participants identified as worker in their current employment (57.7%), followed by Executive/Board member (24.2%), volunteer (7.0%) and only 2.3% identified as supervisor or manager. Majority of respondents were on a permanent employment (68.7%), followed by those on a casual arrangement (10.9%), and fixed term contract (7.5%). Most participants were working for large organisations, which are those with 200 or more employees (49.0%), followed by medium organisations (28.6%) and small and micro businesses (18.8%). Almost half of the participants (45.5%) were in the private sector, the remaining working for the government (27.1%) or a public company (15.0%).

Finally, 64% or two out of three participants working from office/work site(s), including 40% of participants reported working in the office only and another 24% working across multiple work site(s), which is an increase compared to the 22.4% found in the Autumn Edition, six months ago. In contrast, only 3.7% of participants reported working from home only, which is a decrease compared to the 4.6% of the last edition. There was also a decrease in the proportion of participants worked in a hybrid way, that is flexibly, 28.0% compared to the 32.9% of the previous edition. All together, these results could indicate that workers have initiated their return to the office, with flexible working becoming a 'normal' way of working (one out of four workers).

	This Survey		Previous Survey		
	n	%	n	%	
Industry					
Health Care and Social Assistance	238	15.9%	155	15.2%	
Construction	145	9.7%	115	11.3%	
Education and Training	123	8.2%	102	10.0%	
Professional, Scientific and Technical Services	118	7.9%	54	5.3%	
Manufacturing	101	6.7%	83	8.2%	
Public Administration and Safety	89	5.9%	91	8.9%	
Transport, Postal and Warehousing^	86	5.7%	30	2.9%	
Financial and Insurance Services	70	4.7%	41	4.0%	
Retail Trade	66	4.4%	40	3.9%	
Administrative and Support Services	64	4.3%	36	3.5%	
Arts and Recreation Services	49	3.3%	6	0.6%	
Electricity, Gas, Water and Waste Services	43	2.9%	41	4.0%	
Accommodation and Food Services	36	2.4%	12	1.2%	
Agriculture, Forestry and Fishing*	35	2.3%	70	6.9%	
Mining	35	2.3%	36	3.5%	
Wholesale Trade	25	1.7%	9	0.9%	
Rental, Hiring and Real Estate Services	16	1.1%	15	1.5%	
Information Media and Telecommunications	15	1.0%	11	1.1%	
Other	144	9.6%	70	6.9%	
Role					
Worker	865	57.7%	586	57.6%	
Supervisor/Manager	34	2.3%	286	28.1%	
Executive/Board member	363	24.2%	98	9.6%	
Health and Safety Representative	47	3.1%	78	7.7%	
Sole trader/Freelancer/Consultant	53	3.5%	47	4.6%	
Volunteer	105	7.0%	68	6.7%	
Other	31	2.1%	31	3.0%	
Organisation size					
1-4 workers	50	3.3%	51	5.0%	
5-19 workers	262	17.5%	218	21.4%	
20-199 workers	398	26.6%	280	27.5%	
200 or more workers	683	45.6%	421	41.4%	
Working structure					
Work at office only	599	40.0%	346	34.0%	
Work at home only	55	3.7%	47	4.6%	
Work flexibly	420	28.0%	335	32.9%	
Work at multiple sites	360	24.0%	252	24.8%	
Work in my vehicle	39	2.6%	18	1.8%	
Other	25	1.7%	19	1.9%	

Table 2. Employment characteristics of the participants in the Australian WHS survey for the 2023 Spring Edition (this Survey) and the 2023 Autumn Edition (previous Survey).

Note: ^ Transport sector hereafter; *: Agriculture sector hereafter.

Workers' WHS profile

Exposure to hazards and musculoskeletal disorders (MSDs) hazards

Table 3 shows the numbers and the percentages of participants with various frequency of exposures to different types of hazards. The hazards with the highest prevalence of exposure on a daily or weekly basis were 'Repetitive movements with hands or wrists (packing, sorting, assembling, cleaning, pulling, pushing, and typing for at least 3 hours during the day' (68.8%), 'Stand for more than 2 hours in a row' (43.7%), and 'Work in a bent, twisted, or awkward posture' (33.7%). A large proportion of participants (84.3%) reported having been exposed to at least one of those nine hazards on a weekly basis, an increase of nearly 20% compared to the previous edition (64.7%). Similarly, a large proportion of participants (81%) reported having been exposed to at least one of the four hazards associated with musculoskeletal disorders (MSDs) (including repetitive movements, standing for 2 hours or more, work in awkward position, manual handling, and work at height), on a daily or weekly basis, an increase over 20% compared to the previous edition.

		Every day	Every week	Every month	Every 3 months	Every 6 months	Once a year	Once since employment	Never
Repetitive movements at least 3 hrs a day	n %	859 57.5	168 11.3	64 4.3	42 2.8	31 2.1	39 2.6	33 2.2	236 15.8
Stand for 2+ hrs	n %	455 30.5	198 13.3	106 7.1	90 6.0	46 3.1	45 3.0	30 2.0	501 33.6
Work in a bent, twisted or awkward posture	n %	303 20.3	200 13.4	107 7.2	58 3.9	66 4.4	58 3.9	66 4.4	581 38.9
Manual handling (lift/ carry/ push 20+kg)	n %	233 15.6	146 9.8	100 6.7	59 4.0	56 3.8	80 5.4	58 3.9	716 48.0
Hazardous substances	n %	227 15.2	151 10.1	85 5.7	86 5.8	43 2.9	80 5.4	55 3.7	707 47.4
Work in high noise level	n %	207 13.9	191 12.8	93 6.2	66 4.4	60 4.0	64 4.3	46 3.1	739 49.5
Work at height, 2+m above ground/floor	n %	109 7.3	118 7.9	96 6.4	47 3.1	43 2.9	57 3.8	33 2.2	954 63.9
Bullying/ harassment	n %	100 6.7	141 9.4	115 7.7	98 6.6	77 5.2	85 5.7	153 10.2	691 46.3
Perform unfamiliar work tasks	n %	88 5.9	161 10.8	180 12.1	155 10.4	123 8.2	109 7.3	78 5.2	513 34.4

Detailed analyses of weekly and daily exposure to the top three hazards by demographic and employment characteristics are presented in Table 4. Chi-squared statistical analyses revealed that female workers, older workers, those working in Transport and Health care sectors, and those working in large organisations were significantly more exposed to 'repetitive movements' (on daily or weekly basis). In contrast, male workers, young workers, and those working in Construction industries were significantly more exposed to 'standing for 2 hours or more'. Construction workers and those working in the office or work site(s) only were also found to be significantly more exposed to working in 'bent, twisted or awkward position'.

	Repet	itive							
	mover	nents		Stand	2+hrs		Awkw	ard pos	sture
	n	%	p^	n	%	p^	n	%	p^
Demographics Gender									
Male	374	61.3		319	52.3		209	34.3	
Female	626	74.1	.000	320	37.9	.000	283	33.5	.759
Age groups									
Young (<25)	74	81.3		60	65.9		40	44.0	
Middle (25-44)	601	66.3		378	41.7		299	33.0	
Older (45+)	345	/1.1	.005	212	43.7	.000	162	33.4	.105
LGBTQIA+	004	~~~~		500	40 F		400	044	
NO	934	68.6 71.0		593	43.5	C10	468	34.4	077
Yes Abariainal and Tarres Strait	93	/1.0	.569	60	45.8	.618	35	20.7	.077
Islander									
No	946	69.9		595	44.0		465	34.4	
Yes	81	57.9	.003	58	41.4	.563	38	27.1	.085
CALD									
No	931	70.1		591	44.5		461	34.7	
Yes	96	58.2	.002	62	37.6	.091	42	25.5	.018
Migrants	0.01	00.0		500	40 F		450	00.0	
No	961	69.8	000	599	43.5	500	458	33.3	055
Yes Deeple living with dischility	66	56.4	.003	54	46.2	.583	45	38.5	.255
No	045	60.0		607	120		461	22.2	
NO	940 82	00.2 75 Q	006	46 46	43.0 12.6	803	401 72	33.3 38.0	235
Employment characteristics	02	10.0	.000	-10	72.0	.000	76	00.0	.200
Kev industries									
Construction	101	68.7		102	69.4		72	49.0	
Health care	194	76.7		119	47.0		112	44.3	
Manufacturing	58	57.4		50	49.5		28	27.7	
Education	86	69.9		60	48.8		46	37.4	
Transport	83	77.6		55	51.4		51	47.7	
Agriculture	16	44.4	.000	17	47.2	.001	13	36.1	.011
Business size									
Small/micro	204	65.6		142	45.7		118	37.9	
Medium	253	63.9	000	187	47.2	050	133	33.6	077
Large	494	72.5	.006	274	40.2	.056	209	30.7	.077
Work role	CEC	75.0		202	4E 1		247	20.0	
Worker Managar/Executive	000	/ J.Z		393	45.1		347 05	39.8 22.6	
	204 25	00.1 17.2	000	109	41.9 25.0	207	90 0	23.0	000
Work structure	20	71.2	.000	13	00.0	.207	0	13.1	.000
Home only	34	607		9	161		13	23.2	
Office only	682	70.5		556	57.4		392	40.5	
Hybrid	274	65.2	.069	65	15.5	.000	68	16.2	.000

Table 4. Frequencies of participants weekly/daily exposure to the top three hazards by demographic and employment characteristics.

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by subgroups.

Bullying and harassment

More than half of participants (769 or 51.5%) reported having experienced bullying and/or harassment at work at least once since employment. Results showed a significant decrease in the proportion of participants having experienced bullying and/or harassment at work in the last 12 months, from 56% in the last edition to 41.3% in this current edition. Table 5 shows the prevalence of bullying and/or harassment at work by different types experienced by participants. The verbal bullying and/or harassment was the one most commonly experienced (53.3%); closely followed by psychological harassment (50.1%).

Table 5. Frequencies of participants by type of bullying/harassment experienced (among those who reported ever been bullied/harassed). For the 2023 Spring Edition (this Survey) and the 2023 Autumn Edition (previous Survey).

Type of baragement	This Survey		Previous Survey		
rype of hardssment	n	%	n	%	
Verbal	410	53.3	372	63.5	
Psychological	385	50.1	304	51.9	
Discrimination	183	23.8	151	25.8	
Sexual	132	17.2	145	24.7	
Physical	86	11.2	117	20.0	

Comparisons of exposure to various types of bullying and/or harassment at work as a function of demographic and employment characteristics are presented in Table 6. Chi-squared and Fisher's exact⁴ statistical analyses revealed that older workers, Transport and Health care workers, those working in large organisations and those working in the office/work site(s) only were the groups most likely to experience verbal bullying/harassment. Female workers, young workers, and those working in small/micro organisations were the groups most likely to experience sexual harassment. Workers in small/micro organisations, and those working from home only were the groups most likely to experience physical bullying/harassment.

⁴ Fisher's exact statistical test was used instead of chi-square test, when the count of participants within a group is less than 5 (for instance, the count of participants working 'from Home only' reported verbal harassment is 3).

	Verbal			Psycho	ological		Discrin	nination		Sexua	l		Physic	al	
	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^
Gender															
Male Female	156 239	25.6 28.3	.251	134 237	22.0 28.0	.009	62 115	10.2 13.6	.047	37 90	6.1 10.7	.002	37 48	6.1 5.7	.757
Age groups															
Young (<25) Middle (25-44) Older (45+)	26 225 155	28.6 24.8 32.0	.017	19 230 132	20.9 25.4 27.2	.417	13 112 58	14.3 12.3 12.0	.825	14 90 28	15.4 9.9 5.8	.003	4 63 19	4.4 6.9 3.9	.059
Construction Health care Manufacturing Education Transport	49 92 18 36 43	33.3 36.4 17.8 29.3 40.2		37 85 23 35 27	25.2 33.6 22.8 28.5 25.2		13 37 13 12 20	8.8 14.6 12.9 9.8 18.7		14 21 11 10 11	9.5 8.3 10.9 8.1 10.3		4 21 10 7 5	2.7 8.3 9.9 5.7 4.7	
Agriculture	11	30.6	.009	6	16.7	.125	3	8.3	.166	5	13.9	.875	3	8.3	.1/8
Small/micro Medium Large	59 100 226	19.0 25.3 33.2	.000	54 90 215	17.4 22.7 31.6	.000	25 41 105	8.0 10.4 15.4	.002	38 27 59	12.2 6.8 8.7	.041	28 22 31	9.0 5.6 4.6	.020
Work role															
Worker Manager/	263	30.2		236	27.1		117	13.4		72	8.3		40	4.6	
Executive HSR	92 10	22.8 18.9	.009	94 12	23.3 22.6	.317	43 4	10.7 7.5	.212	38 7	9.4 13.2	.407	33 5	8.2 9.4	.021
Work structure															
Home only Office only Hybrid	3 309 78	5.4 31.9 18.6	.000	10 262 101	17.9 27.1 24.0	.190	5 133 39	8.9 13.7 9.3	.050	7 86 33	12.5 8.9 7.9	.489	11 51 21	19.6 5.3 5.0	.000

Table 6. Comparisons of exposure to various types of bullying/harassment by some demographic and employment characteristics.

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by sub-groups.

Reporting of sexual harassment

Table 7 shows the frequencies regarding reporting of bullying and/or harassment at work. Among 125 participants who had experienced sexual harassment and responded to additional questions about such incident reporting, 38.4% would systematically report the incident, and nearly 2 out of 10 (19.2%) would never do so. Among those who had experienced sexual harassment but choose not to report it, the most common reason was of 'being afraid that the report would not be believed or taken seriously' (28.6%), followed by 'being afraid that their relationships at work would be negatively affected' (26.0%) and 'being afraid that their career negatively impacted' (22.1%).

Among those who had reported the incident, nearly half reported it to their manager or supervisor, and a slightly smaller proportion (47.5%) reported it to a co-worker or peer at their same level. Interestingly, less than 1 out of 10 (8.9%) reported it to an external agency such as Fair work commission or Safework. Regarding the outcome of the reporting, 39.6% of those who had reported sexual harassment felt that 'there were no changes at all made in their organisation'. Few of those who had reported sexual harassment experienced real changes made in their organisation, with 5.9% reporting 'changes in existing policies on bullying/harassment' and 4% reporting changes in 'implementation of training or education'. These actual outcomes were by far much smaller than the desired outcome expressed by participants, with 48.5% expecting 'changes in existing policies' and 28.7% expecting 'changes in training or education'.

	n	%
How often sexual harassment was reported (N = 125)		
Always	48	38.4
Sometimes	53	42.4
Never	24	19.2
Who did you report the incident(s) to? (N = 101, always/sometimes)		
Your manager or supervisor	50	49.5
A co-worker or peer at your same level	48	47.5
A family member or friend	30	29.7
Human resource department	22	21.8
An External agency (e.g. Fair Work Commission, Safework NSW).	9	8.9
What was the outcome of your report(s)? (N = 101, always/sometimes)		
There were no changes at the organisation following your report	40	39.6
Your employer advised the organisation that such conduct had occurred,		
and it was unacceptable	22	21.8
Your employer apologised for failing to prevent the bullying/harassment	16	15.8
You were transferred to another team or department within the workplace	7	6.9
Your employer developed or changed the existing policy on		
bullying/harassment - (e.g. complaint procedure)	6	5.9
Your employer implemented training or education	4	4.0
What would you have liked to see happen? (N = 101, always/sometimes)		
Your employer develops or changes the existing policy on		
bullying/harassment - (e.g. complaint procedure)	49	48.5
Your employer advises the organisation that such conduct had occurred,		
and it was unacceptable	44	43.6
Your employer apologises for failing to prevent the bullying/harassment	34	33.7
Your employer implements training or education	29	28.7
What were the reasons that you didn't report? (N = 77, never/sometimes)		
I was afraid that my report would not be believed or taken seriously	22	28.6
I was afraid that my relationships at work would be negatively affected	20	26.0
I was afraid that my career negatively impacted.	17	22.1
It wasn't serious enough	14	18.2
l was embarrassed	10	13.0

Exposure to psychosocial hazards

The validated tool developed by Buttler et al. 2011 was used to identify participants exposure to one or more 'psychosocial job quality (PJQ) adversities' including high job demand, low job control, low job security and low effort-reward fairness. Table 8 shows the frequencies of participants as a function of their number of PJQ adversities. The proportion with no adversity was significantly higher compared that reported in the previous edition (42.6% vs. 31.7%, chi-square test p-value < 0.001). The proportion of participants with 3 or more PJQ adversities, which identifies participants 'at-risk' of psychosocial harm, significantly decreased in comparison to the previous edition (7.5% vs 16.3%).

Table 8. Reporting of psychosocial hazards.

	This Survey		Previous Surv	еу
	n	%	n	%
Number of PJQ adversity				
0	636	42.6	318	31.7
1	502	33.6	327	32.6
2	244	16.3	194	19.4
3	101	6.8	149	14.9
4	10	0.7	14	1.4
Type of PJQ adversity				
High job demand	345	23.1	285	28.4
Low job control	329	22.0	274	27.2
Low job security	341	22.8	309	30.7
Low effort-reward fairness	318	21.3	352	35.1

Table 9 shows the frequencies of exposure to various job quality adversities as a function of selected demographic and employment characteristics. Chi-square or Fisher's exact⁵ statistical analyses revealed that female workers were more likely to experience low job control and low job effort-reward fairness. Young workers were found more likely to experience low job security in comparison to older workers. Health care workers were found more likely to experience high job demand, low job control and low effort-reward fairness. In terms of working structure, those working in the office/work site(s) only were found more likely to experience low job control and low effort-reward fairness. In the office work site fairness, whereas those working from home only were found more likely to experience low job control and low effort-reward fairness.

⁵ Fisher's exact statistical test was used instead of chi-square test, when the count of participants within a group is less than 5 (for instance, the count of participants in Agriculture sector reported high job demand is 2).

Low job fairness High iob demand Low job control Low job security % % % % n p^ n p٨ n p۸ n p^ Gender 135 22.1 115 18.9 140 23.0 109 17.9 Male 199 23.6 .525 203 21.9 .633 203 24.0 .005 Female 24.0 .019 185 Age groups 27 21 Young (<25) 12 13.2 29.7 39 42.9 23.1 Middle (25-44) 21.5 20.1 179 19.7 219 24.1 195 182 Older (45+) 23.5 .061 104 .188 23.5 .000 117 24.1 .150 114 21.4 114 Key industries 25 37 25.2 10.9 Construction 39 26.5 17.0 16 35.2 18.2 Health care 76 30.0 89 46 85 33.6 24 23.8 Manufacturing 17 16.8 16 15.8 15 14.9 Education 37 30.1 23 18.7 18 14.6 39 31.7 Transport 21 19.6 45 42.1 30 28.0 29 27.1 Agriculture 5.6 .003 7 19.4 .000 12 33.3 4 11.1 .000 2 .033 **Business size** 52 16.7 66 21.2 103 33.1 58 18.6 Small/micro Medium 78 19.7 85 21.5 103 26.0 69 17.4 25.8 .000 175 25.7 .002 Large 191 28.0 .000 176 .144 98 14.4 Work role 204 23.4 263 30.2 203 23.3 222 25.5 Worker Manager/ Executive 95 23.6 53 13.2 82 20.3 68 16.9 .988 .000 7 .145 .000 HSR 12 22.6 4 7.5 13.2 5 9.4 Work structure 8 14.3 4 7.1 20 35.7 10.7 Home only 6 Office only 238 24.6 271 28.0 233 24.1 237 24.5 Hybrid 21.7 .131 39 9.3 .000 68 16.2 000 58 13.8 .000 91

Table 9. Frequencies of exposure to various job quality adversities by demographic and employment characteristics.

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by subgroups.

Burnout

Over two thirds of participants reported feeling drained by their work, which is similar to the proportion reported in the previous edition (chi-square test p-value = 0.09).

Table 10. Responses to statements about burnout.

	This Surve	У	Previous S	Survey
	Disagree	Agree	Disagree	Agree
I feel drained by my work.	18%	68%	23%	64%
l worry about work when I am not working.	29%	59%	23%	63%
I find it hard to disconnect from work.	30%	56%	21%	62%

The majority of participants agreed that 'they worry about work when not working' and that 'they find it hard to disconnect from work' (59% and 56%, respectively). These were both statistically significantly smaller than those reported in the previous edition (chi-square test p-value = 0.01 and < 0.001, respectively).

Participants' burnout index ranging from 0 (no burnout) to 100 (complete burnout) was estimated as a function of their level of agreement to the 3 statements in Table 10. The average Burnout index was 63.43, which is not statistically different from that reported in the previous edition (average of 64.02, t-test p-value = 0.56). Burnout index scores were examined as a function of selected demographic and employment characteristics (Table 10). ANOVA and t-tests for statistical difference of the burnout index scores (followed by post hoc Bonferroni comparisons when appropriate) revealed significant differences in the level of burnout experienced by workers as a function of their sector of employment, and the business size of their employer. Workers in the Education sector felt significantly more burnout than workers in the Manufacturing sector, Managers/Executives felt significantly more burnout than those being at worker level or in the role as HSR, workers in large organisations felt significantly more burnout than workers is sale and micro businesses, worker working in hybrid structure also expressed significantly higher level of burnout than those working in the office/work site(s) only.

	Burnout index	
	mean	p-value*
All participants	63.43	
Gender		
Male	62.19	
Female	64.22	.131
Age groups		
Young (<25)	61.20	
Middle (25-44)	63.85	
Older (45+)	63.05	.587
Key industries		
Construction	63.04	
Health care	64.56	
Manufacturing	57.92	
Education	68.25	
Transport	60.46	
Agriculture	60.03	.028
Business size		
Small/micro	60.08	
Medium	62.00	
Large	65.13	.010
Work role		
Worker	61.08	
Manager/Executive	68.49	
HSR	59.43	.000
Work structure		
Home only	66.67	
Office only	62.41	
Hybrid	66.09	.029

Table 11. Mean burnout index score for all participants and sub-groups by demographic and employment characteristics.

Note: * p-value for t-tests/ANOVA tests for statistically significant difference in the mean index score by subgroups.

WHS Awareness and Empowerment

Results indicate that participants felt generally more aware of their WHS rights and responsibilities, and more empowered to participate in WHS conversations in the workplace, in comparison to the previous edition. Nine out of 10 participants agreed that they 'know how to perform their job in a safe manner', and 9 out of 10 participants agreed that they 'know what the necessary precautions are that [they] should take while doing their job' (Table 12).

Table 12. Responses to statements about	WHS awareness.
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	This Survey		Previous Survey	
	Disagree	Agree	Disagree	Agree
I am clear about my rights and responsibilities in relation to workplace health and safety. I am clear about my employer's rights and responsibilities in relation to workplace health and	7%	84%	12%	74%
safety.	8%	82%	12%	75%
I know how to perform my job in a safe manner. If I became aware of a health or safety hazard at my workplace, I know who (at my workplace) I	2%	93%	8%	79%
would report it to.	7%	87%	11%	76%
I have the knowledge to assist in responding to any health and safety concerns at my workplace. I know what the necessary precautions are that I	7%	82%	11%	76%
should take while doing my job.	2%	93%	6%	80%

Participants' awareness in WHS was measured by their level of agreement with statements about WHS awareness. With a range between 0 (no awareness) and 100 (complete awareness), participants reported a significantly higher awareness index score (80.62) compared to that reported in the previous edition (76.35) (t-test p-value < 0.001). ANOVA and t-tests for statistical difference of the WHS awareness index scores (followed by post hoc Bonferroni comparisons when appropriate) revealed that older workers felt higher levels of awareness than expressed by those in the younger age groups (middle and young), those working in large organisations also felt higher levels of awareness than those working in medium, and in small and micro businesses, and finally, HRS felt higher levels of awareness than managers/executive and those at worker level, those working in office/work site(s) only felt higher levels of awareness than those working from home only (Table 13).

	Awareness index		
	mean	p-value	
All participants	80.62		
Gender			
Male	81.70		
Female	79.99	.048	
Age groups			
Young (<25)	79.30		
Middle (25-44)	79.11		
Older (45+)	84.00	.000	
Key industries			
Construction	83.93		
Health care	81.65		
Manufacturing	80.92		
Education	81.25		
Transport	81.27		
Agriculture	76.92	.290	
Business size			
Small/micro	79.21		
Medium	79.35		
Large	82.16	.005	
Work role			
Worker	79.51		
Manager/Executive	81.57		
HSR	87.74	.000	
Work structure			
Home only	76.01		
Office only	81.48		
Hybrid	80.04	.023	

Table 13. Mean WHS awareness index score for all participants and sub-groups by some demographic and employment characteristics.

Note: * p-value for t-tests/ANOVA tests for statistically significant difference in the mean index score by subgroups.

In terms of the empowerment to participate in WHS conversations in their workplace, 9 out of 10 participants agreed that 'they would point out to management if they notice a workplace hazard'. Overall, there were increases in the proportions of participants who agreed with nearly all empowerment-related statements compared to those reported in the previous edition. The statement with a decrease in the proportion would in fact require 'disagree' or 'strongly disagree' to maintain the same meaning as 'agree' or 'strongly agree' in other statements (Table 14). In other words, these results indicate improved empowerment to participate in WHS in the Spring edition.

Table 14. Responses to statements about WHS empowerment.

	This Survey		Previous Survey	
	Disagree	Agree	Disagree	Agree
I feel free to voice concerns or make suggestions				
about workplace health and safety at my job.	17%	70%	20%	64%
If I notice a workplace hazard, I would point it out				
to management.	4%	90%	6%	80%
I know that I can stop work if I think something is				
unsafe and management will not give me a hard				
time.	17%	69%	22%	60%
I have enough time to complete my work tasks				
safely.	19%	63%	24%	55%
I have a good working relationship with my				
manager.	11%	73%	16%	63%
If my work environment was UNSAFE, I WOULD				
NOT say anything, and hope that the situation				
eventually improves.	68%	20%	58%	25%

Participants' empowerment index ranging from 0 (no empowerment) to 100 (complete empowerment) was estimated as a function of their level of agreement to the empowermentrelated statements in table 15. Results show higher empowerment index score compared to that reported in the previous edition (average of 71.50 vs. 67.24, respectively, t-test p-value < 0.001). ANOVA and t-tests for statistical difference in the WHS empowerment index score (followed by post hoc Bonferroni comparisons when appropriate) indicated that male workers felt more empowered in WHS conversations than females, workers in Construction and Manufacturing were more empowered than those in Health care sector, and HRSs and managers/executives felt more empowered in WHS conversations than those at worker level (Table 15).

	Empowerment index		
	mean	p-value	
All participants	71.50		
Gender			
Male	72.83		
Female	70.80	.039	
Age groups			
Young (<25)	70.06		
Middle (25-44)	71.17		
Older (45+)	72.76	.300	
Key industries			
Construction	74.48		
Health care	69.64		
Manufacturing	73.00		
Education	73.22		
Transport	69.92		
Agriculture	69.32	.008	
Business size			
Small/micro	71.46		
Medium	72.07		
Large	71.12	.720	
Work role			
Worker	69.78		
Manager/Executive	73.51		
HSR	77.69	.000	
Work structure			
Home only	70.55		
Office only	71.33		
Hybrid	72.73	.069	

Table 15. Mean WHS empowerment index score for all participants and sub-groups by some demographic and employment characteristics.

Note: * p-value for t-tests/ANOVA tests for statistically significant difference in the mean index score by subgroups.

Workplace WHS profile

System and Commitment to WHS

Most participants (7 out of 10) agreed that in their workplace, 'systems are in-place to identify, prevent and deal with hazard at work', and most (7 out of 10) agreed that 'Communication about workplace health and safety procedures is done in a way that they can understand'. Compared to the previous edition, there were consistent increases in the proportions of participants 'agreeing' with statements about workplace's WHS system (Table 16).

Table 16. Responses to statements	about workplace's WHS system.
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	This Survey		Previous Survey	
	Disagree	Agree	Disagree	Agree
Everyone receives the necessary health and safety				
training when starting a job, changing jobs, or using				
new techniques.	23%	61%	27%	53%
There is regular communication between workers				
and management about health and safety issues.	22%	61%	26%	55%
Systems are in-place to identify, prevent and deal				
with hazards at work.	14%	70%	18%	63%
There is an active and effective health and safety				
committee, and/or health and safety				
representative.	23%	57%	25%	53%
Incidents and accidents are investigated quickly in				
order to improve workplace health and safety.	17%	63%	24%	53%
Communication about workplace health and safety				
procedures is done in a way that I can understand.	12%	71%	19%	60%
Workplace health and safety is considered to be at				
least as important as production and quality in the				
way work is done.	18%	67%	22%	59%

The average index score for WHS System was 65.91, which is statistically significantly higher than that reported in the previous edition (62.29, t-test p-value < 0.001), indicating that participants felt more confident about the WHS system in place in their workplace. ANOVA and t-tests for statistical difference in the WHS System index score (with post hoc Bonferroni comparisons where relevant) revealed that across sub-groups, male workers felt more confident than female workers about their workplace WHS system, HSRs and managers/executives felt more confident than those at worker level about their workplace WHS system, as well as workers benefiting from hybrid working arrangements in comparison to those working from home only (Table 17).

	System index	
	mean	p-value
All participants	65.91	
Gender		
Male	68.41	
Female	64.30	.001
Age groups		
Young (<25)	67.02	
Middle (25-44)	66.39	
Older (45+)	65.05	.530
Key industries		
Construction	67.98	
Health care	63.25	
Manufacturing	71.35	
Education	65.08	
Transport	65.11	
Agriculture	66.49	.059
Business size		
Small/micro	65.59	
Medium	65.63	
Large	66.11	.920
Work role		
Worker	63.03	
Manager/Executive	69.06	
HSR	75.32	.000
Work structure		
Home only	60.55	
Office only	65.68	
Hybrid	68.09	.032

Table 17. Mean WHS system index score for all participants and sub-groups by some demographic and employment characteristics.

Note: * p-value for t-tests/ANOVA tests for statistically significant difference in the mean index score by subgroups.

In regard to workplace's commitment to WHS, over 6 out of 10 participants agreed that 'their supervisors are supported to make decisions to aid the physical and psychological safety of all workers'. This is an increase of nearly 10% compared to the previous edition (from 53%). Results showed an increase of the proportions of participants agreeing to 5 out of 6 statements about workplace's commitment to WHS. The only exception is the statement that 'there are systems in-place to proactively manage hazards that could affect my mental health' (51% vs. 53% in the previous edition) (Table 18).

	Table 18. Responses	to statements abo	out workplace's co	mmitment to WHS.
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	This Survey		Previous Survey	
	Disagree	Agree	Disagree	Agree
Supervisors are supported to make decisions to aid				
the physical and psychological safety of all				
workers.	20%	62%	24%	53%
Leaders demonstrate a commitment to healthy				
work creating a strong safety culture.	21%	60%	24%	53%
Systems are in-place to proactively manage				
hazards that could affect my mental health.	29%	51%	24%	53%
WHS is a priority when new technology is				
introduced, including assessing and managing				
risks; consulting and communicating with workers;				
and conducting training in the safe use.	19%	59%	26%	48%
l have confidence that my privacy and				
confidentiality is protected when new technology is				
introduced.	18%	59%	24%	50%
Systems are in place to manage WHS in support of				
flexible work practices and flexible work				
environments.	21%	58%	31%	45%

Participants' WHS Commitment index score was 62.46, statistically significantly higher than that reported in the previous edition (58.07, t-test p-value < 0.001), indicating a better perception of commitment to WHS in the workplace. ANOVA and t-tests for statistical difference in the WHS Commitment index score show that male workers felt more confident than female workers about their workplace's commitment to WHS, similar to young workers in comparison to older workers, Construction and Manufacturing workers in comparison to Health care workers. Workers from small/micro and medium businesses felt also more confident than workers from large businesses about their workplace's commitment to WHS. HSRs and managers/executives had higher levels of confidence in their workplace's commitment to WHS than those at worker level (Table 19).
	Commitment index	
	mean	p-value
All participants	62.46	
Gender		
Male	65.07	
Female	60.85	.001
Age groups		
Young (<25)	66.56	
Middle (25-44)	63.77	
Older (45+)	59.54	.002
Key industries		
Construction	65.60	
Health care	58.33	
Manufacturing	67.97	
Education	60.83	
Transport	59.25	
Agriculture	62.27	.007
Business size		
Small/micro	64.92	
Medium	63.98	
Large	59.90	.002
Work role		
Worker	59.04	
Manager/Executive	66.52	
HSR	70.72	.000
Work structure		
Home only	60.31	
Office only	61.47	
Hybrid	65.86	.006

Table 19. Mean Commitment to WHS index score for all participants and sub-groups by some demographic and employment characteristics.

Note: * p-value for t-tests/ANOVA tests for statistically significant difference in the mean index score by subgroups.

Barriers, enablers and drivers to good WHS practice

The most common barriers to good WHS selected by participants were 'Lack of time or resources' (45%), 'Prioritising other items over WHS' (38%) and 'Cost implication' (31%). These top three barriers were consistent across key industries and business sizes (Table 20).

Regarding enablers of good WHS, 'Training and Education' (48%), 'Strong leadership and commitment' (45%), and 'Active risk assessment and management' (42%) were selected in participants' top three. Table 21 shows some variations as a function of participants' industry and business size. Specifically, 'Communication & consultation with all workers' was selected as the top enabler by workers in Health care (53%), and selected in the top three enablers of workers in small and micro businesses (40.5%).

Regarding drivers of good WHS, 'More valued by workers', 'Impact on business' reputation' and 'Thought of someone might get seriously hurt' were generally selected as the top three drivers (38.0%, 32.8% and 31.6%, respectively). Table 22 shows some variations as a function of participants' industry and business size. Notably, 'More financially rewarding', which did figure in the overall top three drivers in the previous edition, was selected in the top three drivers of workers in small and micro businesses, workers in Construction, and workers in Agriculture. Workers in Agriculture also selected 'Simpler to understand' as a driver of good WHS in their sector.

	Lack time	c of /resoui	rces	Priorit over W	ising othe /HS	er items	Cos imp	st Iicati	on	Limit unde	ed rstand	ing	No	exper	tise	Lim kno	ited wled	ge	Too con	nplex	,
	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	_b,	n	%	p^
All participant s	67 3	45.1		567	38.0		46 0	30. 8		397	26.6		34 7	23. 2	-	3 41	22. 8		20 5	13. 7	
key industries Constructi	00	60.		C1	41 F		<u></u>	42.		40	20.2		20	26.		3	21.		10	12.	
on Health	89	5 53.		61	41.5		62	2 27.		43	29.3		39	ว 22.		2 5	8 20.		18	2	
care Manufactu	135	4 39.		100	39.5		69	3 38.		57	22.5		56	1 32.		3 3	9 31.		20	7.9 18.	
ring	40	6		33	32.7		39	6 26		28	27.7		33	7 22		2	7 20		19	8 10	
Education	50	40.7 50.		42	34.1		33	20. 8 43.		27	22.0		28	22. 8 23.		5 2	20. 3 23.		13	10. 6 15.	
Transport Agricultur	54	5 38		49	45.8		47	9 47	00	27	25.2		25	4	12	5	4 13	20	17	9 22	0
e Business size	14	9	.003	13	36.1	.354	17	2	1	10	27.8	.639	4	11.1	9	5	9	6	8	2	21
Small/micr o	119	38. 3		84	27.0		10 0	32. 2		83	26.7		84	27. 0		6 5	20. 9		53	17. 0	
Medium	164	41.4		150	37.9		11 2	28. 3		111	28.0		10 2	25. 8		91	23. 0		55	13. 9	
Large	35 4	52.0	.000	304	44.6	.000	21 1	31. 0	.49 8	171	25.1	.567	12 4	18. 2	.0 01	16 1	23. 6	.63 2	87	12. 8	.19 9

Table 20. Barriers to good WHS reported by participants in some key industries and business sizes.

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by sub-groups.

	Training and education		d	Stror lead	ng ership		Activ asse mana	ve risk ssmen ageme	it & int	Comr & con with a	nunica Isultat all wor	ation ion kers	Adeq resou	uate irces		Gooc repoi syste	l rting ems		Inves mitig post	tigatic ation a incider	on and action nt	Saf is g bus	e busin ;ood iness	iess
	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^
All					45.			44.			42.			39.			38.			32.		32		
participants	723	48.4		677	3		660	2		630	2		593	7		570	2		484	4		6	21.8	
Key industries																								
					48.						50.			46.			38.		= -					
Construction	74	50.3		/1	3		/5	51.0		74	3		69	9 27		57	8		53	36.1		41	27.9	
Health care	134	53.0		103	40. 7		104	411		96	37. 9		96	37. 9		107	42. 3		92	30. 4		42	16.6	
riodelli odro	101	00.0		100	, 39.		101	47.		00	50.		00	46.		107	U		θĽ	36.			10.0	
Manufacturing	45	44.6		40	6		48	5		51	5		47	5		42	41.6		37	6		30	29.7	
					53.			44.			43.			39.			38.			29.				
Education	61	49.6		66	7		55	7		54	9		49	8		47	2		36	3		20	16.3	
Transport	53	105		/11	38. 3		17	43. Q		18	44. Q		38	35. 5		46	43. 0		53	49. 5		28	26.2	
Transport	55	+3.5	.30	-11	38.	.09	77	3		40	30.	.06	50	44.	.30	40	0		55	5		20	20.2	
Agriculture	12	33.3	6	14	9	3	13	36.1	.401	11	6	2	16	4	9	6	16.7	.091	5	13.9	.002	9	25.0	.014
Business size																								
								38.			40.			36.			29.							
Small/micro	123	39.5		130	41.8		121	9		126	5		114	7		91	3		60	19.3		65	20.9	
Modium	102	107		102	46.		100	45. F		170	44.		150	40.		150	39.		120	32.		02	21.0	
Medium	192	40.7	00	103	2 48		160	5 46		1/0	9 43	49	159	2	42	150	9 42	00	150	0		00 15	21.0	88
Large	364	53.5	0	327	0	.190	319	8	.061	293	0	7	279	41.0	9	292	9	0	273	40.1	.000	0	22.0	4

Table 21. Enablers to good WHS reported by participants in some key industries and business sizes.

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by sub-groups.

Table 22. Drivers to good WHS reported by participants in some key industries and business sizes.

	More worke	valued l ers	by	Impac busin reputa	ct on the ess' ation	9	Thoug someo might hurt	t of one get ser	iously	More rewar	financia ding	ally	Simpl under	er to stand		More custo invest	valued mers/ tors	by	Thoug of gettir regula	ght of at ng caugl ators	t risk ht by
	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^	n	%	p^
All participants Key industries Constructio	568	38.0		489	32.8		472	31.6		444	29.7		369	24.7		343	23.0		310	20.8	
n	74	50.3		49	33.3		45	30.6		57	38.8		32	21.8		59	40.1		33	22.4	
Health care Manufacturi	103	40.7		73	28.9		76	30.0		51	20.2		46	18.2		35	13.8		50	19.8	
ng	38	37.6		33	32.7		34	33.7		33	32.7		30	29.7		30	29.7		19	18.8	
Education	42	34.1		36	29.3		41	33.3		30	24.4		25	20.3		20	16.3		21	17.1	
Transport	54	50.5		42	39.3		41	38.3		40	37.4		31	29.0		30	28.0		32	29.9	
Agriculture Business size	14	38.9	.042	10	27.8	.469	10	27.8	.694	13	36.1	.000	11	30.6	.079	5	13.9	.000	9	25.0	.209
Small/micro	96	30.9		80	25.7		77	24.8		93	29.9		71	22.8		62	19.9		45	14.5	
Medium	152	38.4		125	31.6		135	34.1		118	29.8		98	24.7		109	27.5		74	18.7	
Large	289	42.4	.002	247	36.3	.004	224	32.9	.015	187	27.5	.617	167	24.5	.810	141	20.7	.017	165	24.2	.001

Note: ^ p-value for chi-square/fisher's exact tests for statistically significant difference in the distribution by sub-groups.

Future of work

New or emerging WHS issues in the workplace

One out of five participants reported having experienced, or observed, a new or emerging WHS issue related to behaviour, attitudes or practices in the workplace, over the last six months (22%).

Table 23. New or emerging WHS issues in the workplace.

	n	%
Issues from new or emerging behaviours, attitudes, or practices (either yours or	32	22
other people in your workplace)	9	%
leaves from now or emercing wave of working or two so of work	17	12
issues from new or emerging ways of working or types of work	3	%
leaves from new er emercing technologies er werkplass innevetiens	14	10
issues from new or emerging technologies or workplace innovations	7	%
Other new or emerging issues	64	4%
	98	66
None of the above	4	%

Most commonly reported issues from new or emerging behaviours, attitudes, or practices (either yours or other people in your workplace)

• Lack of support and commitment from management to WHS (n= 66)

Large number of participants expressed their concern regarding management's lack of support and commitment to WHS. These were reported in different shapes or forms, from deprioritisation of WHS taken over by profit or cost savings, to the extreme that WHS issues were created by the management themselves, such as increased stress and tension among workers, act of bullying and abuse.

"Change in leadership which values profit over safety" "New management team that prefers to work within a budget rather than spending money fixing issues"

"Executives allow and conduct in acts of bullying, intimidation, verbal abuse" "More people getting bullied from the boss if you don't work faster and females cope it the most"

"Increased stress and tension in the workplace leading to changes in manager's behaviour that encroach on bullying/ psychological hazards to others"

• Increasing workloads, high expectations, lack of resources, lack of role clarity, and/or procedure to reporting WHS issues (n=62).

Participants also reported their concern around increasing workloads along with high expectation without relevant resources and support, which would consequently lead to serious WHS issues in the workplace. This is particularly true in the context of tight labour market and increasing costs of labour hire.

"People are burnt out. Workloads and expectations are increasing"

"Being made to work unsafe practices due to time constraint"

"Shrinking regional workforce meaning acceptance of short staffing and it becoming the new normal"

"Everyone is burnt out and stressed because we don't have enough resources. Work is getting busier but staffing levels haven't accommodated for that"

"Reduction in the workforce leading to people cutting corners to increase productivity to try and maintain contracts"

"A consistent theme of ignorance or purposeful behaviour that ignores issues raised. Lack of role clarity and job expectations with little communication from upper management"

"Push to get the job done and not consider fatigue"

• Worker's negative attitude toward WHS, lack of training, lack of responsibility to WHS (n=61).

Tight labour market increases the need to hire young or inexperience workers. These were also the ones who often lack of training and/or lack of experience in the area of WHS. Consequently, this would associate with inappropriate attitude toward safety, including some of the expressions reported by participants below:

"Younger workers with bad attitudes"

"Attitude to safety is not taken seriously, they just try to get the job done"

"Employees do not have a positive attitude towards work"

"Workers don't understand they are responsible for their and everyone else's safety"

"New staff who are not trained, are recent migrants to Australia who lack a standard level of English, who aren't interested in anything except to do the job quicker than others, to make good impression as to get mates a job too"

"New hires don't like change and overseas workers who don't want to follow; when rules where they come from there is none" "Complacency around hazards, such as not wearing PPE; ignoring barricading, cutting corners, no repercussions and just focusing on production"

"Not everyone has the proper training which is required to follow processes"

Most commonly reported issues from new or emerging ways of working or types of work.

 Participants expressed concerns related to flexible work arrangement, including working from home, from remote locations, across culture and geographies, and/or hybrid work (n=26).

Working flexibly, including working from home, working from remote locations or hybrid work with a mix of office/work site(s) and home/remote location, has become a new normal way of working, facilitated by the COVID-19 pandemic. However, inconsistent policies around flexible working across workplaces, such as the number of days that workers are required to be in the office, or specific days that workers are of the week required to be in the office, create uncertainty.

"Working from home means that there is no collegiality, and everyone is just in their own bubble. It's quite dehumanizing and management make no attempt to do anything about it"

"With the popularity of telecommuting, employees face problems such as lack of proper workstation settings, lack of human interaction, and lack of physical activity"

"Loneliness, disconnection from workplace due to working from home"

"Flexible working hours result in employees working long, continuous hours and lack of rest and recovery time, potentially increasing work stress and mental health issues"

"Work from home flexibility means that employers have less visibility over WHS aspects at employee's choice of work space"

"New issues arising from the widespread adoption of remote work, such as managing team collaboration and maintaining work-life balance; emerging with increased work from home/ changed start and finish times; reduced leadership support with work from home"

• The emergence of automation in the workplace, and gig economy leads to participants concerns about their job security as well as safety (n=43).

"Additional services are added to existing delivery service by gig platforms using ebike. However, there are items that are too big/heavy for bicycle, which creates safety issue for riders" "The rapid development of new technologies can lead to workers' skills becoming obsolete, requiring continuous learning and adaptation to new skills"

"With the development of automation technology, many traditional jobs may be replaced by robots or automated equipment, resulting in a large number of people unemployed"

"The introduction of new technologies may lead to the automatic replacement of certain positions, resulting in the reduction of related jobs and the unemployment of employees"

Most commonly reported issues from new or emerging technologies or workplace innovations.

• WHS concerns that were reported by participants were job security (job losses), privacy and security issues, mental health problem, increased working pressure; lack of training, confusion and even issues that are yet to be realised in the future.

"AI and increased use of robotics - both causing stress for workers fearing loss of job as well as safety issues associated with people interaction with robotics - lack of separation from moving parts"

"Transition of technologies has led to many privacy and confidentiality concerns, particularly with people maintaining access to things they should no longer be able to access"

"New technologies also bring personal data and privacy challenges, such as the use of monitoring technology in remote work"

"In the field of artificial intelligence and machine learning, algorithmic biases lead to unfair decisions, raising questions of ethics and social justice"

"The introduction of new technologies has led to the original working mode becoming less fluid, and our original working mode has become cumbersome"

"Certain new technologies can have negative effects on employee health and ergonomics, such as eye strain and posture problems caused by prolonged use of electronic devices"

"With the increasing use of technology, such as computers and mobile devices, people are experiencing musculoskeletal disorders like carpal tunnel syndrome, neck and back pain, and eye strain due to poor ergonomics"

"Changes in technology systems have increased stress in some business areas"

Emerging WHS preventative measures and solutions

About 1 out five participants reported having noticed or experienced at least one new/emerging measure or solution to improve WHS in the last 6 months.

	n	%
New WHS guides, resources, or materials	112	8%
New technology that has the potential to prevent harm	99	7%
New legislation or codes of practices in Australia or internationally	97	6%
Other new solutions that have the potential to prevent harm	89	6%
None of the above	1198	80%

Table 24. Emerging WHS preventative measures and solutions.

New WHS guides, resources and materials

Most participants reported new guides, resources and materials related to general WHS that they came across on regulator websites, the Centre's website and/or WHS team within their organisations. There were also a number of participants who reported new guides, and resources related to specific issues such as psychosocial hazards and mental health, working from home or remote location, specific WHS needs for disability/aged care workers.

New legislation or codes of practices in Australia or internationally

The most commonly reported new legislation or code of practice was the one on managing psychosocial hazard and mental health in the workplace (n=40). There were also some (n = 7) reference to code of practice related to hazardous chemicals including silica (n = 6) and welding fumes (n=1).

New technology that has the potential to prevent harm

- Artificial intelligence was one of most common new technology reported by participants to promote WHS. For instance, it was described that the advanced AI algorithms can be used to analyse patterns and detect potential harm in real-time.
- Another technology that was mentioned is data analytics and predictive models, by using big data analytics and machine learning algorithms, it is possible to analyse historical data and predict potential security risks. This helps to detect and prevent accidents early and take appropriate measures to protect the safety of employees.
- There was also mentioning of the use of electrics and robotics where human would have once had to enter, to keep operators away from hazardous sites and remotely control machinery operations.

- Smart safety nets, with sensors and automated controls, detect and respond in real time to fall risks at high altitudes to protect workers from falling injuries.
- Virtual reality (VR) and augmented reality (AR) technologies can provide immersive training and simulation environments that enable workers to practice and learn in a safe virtual environment to reduce the occurrence of accidents and injuries

Discussion

This report provides the latest insights on from online survey of Australian workers on a number of WHS leading indicators, covering physical to psychosocial hazards at worker level and their perception of their workplace's WHS system and commitment to good WHS practice. A total of 1,493 workers participated in this 2023 Spring Edition of the Survey, an increase of nearly 50% from our previous edition in Autumn 2023.

Harms to workers

Over 84% of participants indicated being exposed to at least one of the nine hazards listed in the validated OHS Vulnerability measure on daily or weekly basis, an increase of approximately 20% in comparison to the previous edition in Autumn 2023 six months ago. 'Repetitive movement with hands or wrists (packing, sorting, assembling, cleaning, pulling, pushing, and typing for at least 3 hours during the day', 'Stand for more than 2 hours in a row', and 'Work in a bent, twisted, or awkward posture' were the hazards generating the most exposure, similar to the previous edition. Across these three hazards, male and young workers were the groups reporting the highest prevalence of daily/weekly exposure, reflecting the fact that they are more likely the ones doing physical jobs. In terms of industries, Construction and Health care workers were commonly those reporting very high level of exposures to the above hazards on a daily/weekly basis.

Results also showed a decrease of nearly 15% in the proportion of participants reporting having been bullied or harassed in the last 12 months. Similarly to the previous edition, verbal harassment was found the most common form of harassment, followed by psychological, the least common form being physical. Female workers appear to report higher prevalence of exposure than male counterparts across nearly all types of harassment. For sexual harassment, the prevalence of exposure in female workers was statistically significantly higher and nearly twice that of male workers. In addition, statistically significantly higher prevalence of exposure to sexual harassment was reported by young workers (compared to other age groups), and those working in small/micro businesses (compared to larger businesses).

In this 2023 Spring Edition of the Survey, we collected additional questions on the reporting of harassment. For sexual harassment, only 4 out of 10 participants responded that they always reported the incidence and nearly 2 out of 10 did not report the incidence at all. Among those who did report sexual harassment, they would do so preferably to their manager/supervisor, or their colleague at the same level. Very few (< 9%) reported to an external agency. This finding Page **40** of **64**

supports the reality of seriously underreporting of sexual harassment in WHS regulators' statistics.

In contrast to the increase in the prevalence of workers' exposure to physical hazards, results showed a decrease in the prevalence of workers' exposure to psychosocial hazards, in comparison to the previous edition (including high job demand, low job control, low job quality and low effort-reward fairness). The apparent decrease of exposure to psychosocial hazards might be an early indicator of recent efforts from the work health and safety regulators in improving mental health at work. At the national level, the 2019-20 Federal Budget the Government allocated \$11.5 million over four years for the National Workplace Initiative (NWI) to provide a nationally consistent approach to workplace mental health. One of the objectives of the NWI is to strengthen programs and interventions for mentally healthy workplaces already underway in Australia⁶. In NSW, Safework has made available a wide variety of resources to support businesses from training, coaching, to management and assessment workplace mental health⁷. Worksafe Victoria, in their Workplace mental health strategy 2021-24, also set out objectives to focus on prevention, support and improvement in capabilities to create positive, mentally health workplaces⁸.

WHS practices in the workplace

Results showed consistent increases in the WHS awareness (participants are more aware of their WHS rights and responsibilities) and WHS empowerment (participants are more empowered to participate in WHS conversations) of the participants in comparison to the previous edition. Similarly participants felt more confident in their workplace's WHS system and commitment to WHS.

Barriers to good WHS practice

Lack of time or resources

Similar to the previous edition, the lack of time and ressources is still the most common barrier selected by participants. The tight labour market following the disruption of migration in Australia during the pandemic years remained a sustained issue. Despite a slight improvement from 3.5% in June, the current unemployment rate in Australia is 3.7%, one of the lowest

⁶ https://www.comcare.gov.au/safe-healthy-work/mentally-healthy-workplaces/mental-health-initiatives/build-resilience-in-the-workplace

⁷ https://www.nsw.gov.au/mental-health-at-work

⁸ https://www.worksafe.vic.gov.au/mental-health-strategy

unemployment rates over the last 50 years⁹. The tight labour market leads to fierce competition and increasing costs to attract talents, and consequently contributes to the availability of resources that would have been devoted for WHS. The tight labour market also relates to the need to recruit younger and/or less experienced worker leading to the increase in the time for training and consequently decrease in time for other activities, which likely include WHS.

Prioritising other items over WHS

By law, a 'person conducting a business or undertaking' (PCBU) has the primary duty of care to ensure the health and safety of its workers and that other people are not put at risk from its work. In other words, WHS has to be prioritised. In reality, the opposite is often true, with prioritisation of cost savings and project delivery over WHS..

In the spotlight

Another call for prioritisation of WHS for Health care workers

Participants working in Health care sector were among those with highest prevalence of exposure to a wide range of workplace hazards. This sector was among the top 3 showing the highest prevalence of exposure to harassments (particularly verbal, psychological and discrimination), and of exposure to nearly all major psychosocial hazards (including high job demand, low job control and low effort-reward fairness). Health care sector participants were among the groups with the lowest scores of WHS awareness and of WHS empowerment, and showed the least confidence in their workplace's WHS systems and commitment to WHS.

These findings were no different from those in January, highlighting the need to prioritise health care workers across all domains of WHS. This is particularly important due to the fact that health care workers is currently accounted for the largest proportion in the entire Australian workforce. The Australian Intergenerational report 2023¹⁰ and NSW Intergenerational report 2021-22¹¹ both projected that people will live longer into the future and the proportion of older people in the population will keep increasing. Over the next 40

⁹ Australian Bureau of Statistics. Sep. 2023. Labour Force, Australia, detailed.

https://www.abs.gov.au/statistics/labour/employment-and-unemployment/labour-force-australia-detailed/sep-2023#unemployment

¹⁰ Australian Government. (2023a). 2023 Intergenerational Report. https://treasury.gov.au/publication/2023-intergenerational-report

¹¹ NSW Government. 2021. 2021-22 NSW Intergenerational report. https://www.treasury.nsw.gov.au/sites/default/files/2021-06/2021-22_nsw_intergenerational_report.pdf

years, the number of people aged 65 and over will more than double and the number aged 85 and over will more than triple. The demand for workers in Health care sector will increase enormously. Prioritising WHS for health care workers does not only ensure the work force to support the aging population healthy but also to attract future generations to join one of the most critical sectors in the economy.

At risk workers

Participants reported higher prevalence of exposure to sexual harassment were female workers, young workers and those working in small and micro businesses. While these were consistent with the findings reported in National inquiry into sexual harassment in Australian workplaces in 2020¹², these highlighted the fact that three years on, little has been done to address the issue.

Female workers also reported higher levels of exposure to most psychosocial hazards.

Workers working only from home reported significantly higher proportion of physical abuse/harassment than those working only in the office/work site(s) or those working in hybrid arrangements. This is the concern that was well documented in the literature for this group of workers due to the challenge in setting the boundaries between work and personal life, and higher risk of domestic violence as well as higher prevalence of alcohol consumption than other work arrangements (in office only, or hybrid)¹³, ¹⁴.

¹² Australian Human Rights Commission. 2020. Respect@Work: National Inquiry into Sexual

Harassment in Australian Workplaces.

¹³ Sarangi A., Kim D., & Rafael J. (2022). The mental health impact of work from home: a literature review. *The Southwest Respiratory and Critical Care Chronicles*, 10(45). https://doi.org/10.12746/swrccc.v10i45.1085

¹⁴ Ferrara, B., Pansini, M., De Vincenzi, C., Buonomo, I., & Benevene, P. (2022). Investigating the Role of Remote Working on Employees' Performance and Well-Being: An Evidence-Based Systematic Review. *Int J Environ Res Public Health*, 19(19). <u>https://doi.org/10.3390/ijerph191912373</u>

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- Ha Nguyen for drafting the report.

Appendices

Appendix A: Survey instrument – 2023 Spring Edition

Intent	Question	Response	Response type
Your job			
Please tell us a l	ittle bit about your place of work, and your role in it.		
If you work in mo	ore than one workplace or have more than one role, pick t	he one where you spend most of your working	hours.
Q1. Role	Which of the following best describes your role in the workplace?	Worker Supervisor/Manager	Mandatory Select one
	If you currently work in more than one role, pick the one that you spend most of your working hours.	Executive/Board member Health and Safety Representative Sole trader/Freelancer/Consultant Volunteer	option
		Other, please specify [free input]	
Q2. Employment	Which of these categories best describes your current employment*? If you currently work in more than one type of employment, pick the one that you spend most of your working hours.	Permanent or ongoing Fixed-term Casual Labour hire Self-employed Contractor	Optional Select one Text input option
		Gig worker Other, please specify [free input]	
Q3. State	In which state or territory do you work?	New South Wales Victoria	Mandatory Select one
	If you currently work in more than one state or territory, pick the one where you spend most of your working hours.	Australian Capital Territory Northern Territory Queensland South Australia Tasmania	

Intent	Question	Response	Response type
		Outside Australia [closure statement, if only selection]	
Q4. Industry	Which industry do you work in?	Agriculture, Forestry and Fishing Mining	Mandatory Select one
	If you currently work in more than one industry, pick	Manufacturing	
	the one that you spend most of your working hours.	Electricity, Gas, Water and Waste Services	
		Construction	
		Retail Trade	
		Accommodation and Food Services	
		Transport, Postal and Warehousing	
		Information Media and Telecommunications	
		Financial and Insurance Services	
		Professional Scientific and Technical	
		Services	
		Administrative and Support Services	
		Public Administration and Safety	
		Education and Training	
		Arts and Recreation Services	
		Other, please specify [free input]	
Q5. Business	[skip if Demographic: role = sole trader]	1-4 workers	Mandatory
Size	Llow many name work in your organization?	5-19 workers	Select one
	How many people work in your organisation?	20-199 workers 200 or more workers	
	Please respond based on the organisation that you spend most of your working hours.		
Q6. Employer	[skip if Demographic: role = sole trader]	Private Company	Mandatory
type		Public Company	Select one
		Government	

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Intent	Question	Response	Response type
	Which of the following best describes the organisation you work for? Please respond based on the organisation that you spend most of your working hours.	Non-Government organisation/Not for Profit Other, please specify [free input]	Text input option
Q7. Working structure	What best describes where you work? Please respond based on the organisation that you spend most of your working hours.	I only work at my organisation's site/office I only work at home I work flexibly (e.g. home, office, field and/or work-sites) I work across multiple work sites I work in my vehicle Other, please specify [free input]	Mandatory Select one Text input option
Health and Safet	ty in your workplace(s)		
Q8. Exposure to hazards	 Workplace hazards: This part asks about the kinds of health and safety hazards you might be exposed to in your job. For each item below, please rate how often you do the stated task or are exposed to the stated condition. In your job, how often do you? Manually lift, carry, or push items heavier than 20 kg at least 10 times a day. Do repetitive movements with your hands or wrists (packing, sorting, assembling, cleaning, pulling, pushing, and typing) for at least 3 hours during the day. 	Never Once since employment Once a year Every 6 months Every 3 months Every month Every week Every week Every day Don't know/not applicable	Mandatory Select one
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Intent	Question	Response	Response type
	Perform work tasks or use work methods that you are not familiar with. Interact with hazardous substances such as chemicals, flammable liquids, and gases. Work in a bent, twisted, or awkward posture. Work at a height that is 2 metres or more above the ground or floor. Work in noise levels that are so high that you have to raise your voice when talking to people less than 1 metre away. Stand for more than 2 hours in a row. Experience bullying or harassment at work (repeated and unreasonable behaviour including, abusive or offensive language or comments; belittling or humiliating comments, practical jokes or initiation; unjustified criticism or complaints).		
	If selected 2 to 8 for Q8.9, ask the following question:		
	9a.Please identify the type of bullying or harassment that you have experienced. Select all that apply.	Verbal (e.g. abusive or offensive language; belittling or humiliating comments; practical jokes or initiation; unjustified criticism or complaints) Physical (e.g. hitting, kicking, pushing, practical jokes or initiation) Sexual (e.g. unwelcome sexual conduct, inappropriate physical contact, intrusive	Skip logic Select all that apply Text input option

Intent	Question	Response	Response type
		personal questions, sexual jokes, sexual	
		messages)	
		Psychological (e.g. making impossible	
		demands, imposing unreasonable deadlines)	
		Discrimination (e.g. discrimination on race,	
		Drefer net to say	
		Other please specify [free input]	
	9b. In the last question you indicated that you have	Other, please specify [nee input]	Skin logic
	experienced bullying/barassment at work		Select one
			001001 0110
	We want to ensure that you know about the support	Yes	
	that is available to you. If you feel as though you need	No	
	some additional help.		
	<u>Please click here for support services.</u> (open in a new		
	window)		
	The next questions ask about reporting of bullving		
	and harassment at work. Would you like to answer		
	these questions?		
	If selected 1 for OQb, ask the following questions for		
	each type of hullying/harassment selected in Oga-		
		Always	Skip logic
		Sometimes	Select one

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Intent	Question	Response	Response type
	9c1. You mentioned you have experienced <verbal> bullying / harassment, How often have you reported this kind of incidents?</verbal>	Never (Skip logic) Prefer not to say (Skip logic)	Select all that
	9c2. Who did you report the incident(s) to? 9c3. What was the outcome of your report(s)?	A co-worker or peer at your same level Your manager or supervisor Human resource department An External agency (e.g. Fair Work Commission, Australian Human Rights Commission or Safework NSW).	Select all that
	9c4 What would you have liked to see happen?	There were no changes at the organisation following your report Your employer apologised for failing to prevent the bullying/harassment Your employer advised the organisation that such conduct had occurred, and it was unacceptable Your employer developed or changed the existing policy on bullying/harassment - (e.g. complaint procedure)	apply
	904. What would you have liked to see happen?	education You were transferred to another team or department within the workplace Unsure/Prefer not to say Other action took place (please specify)	Select all that apply Skip to Q9.1 after the last option
	9c5. What were the reasons that you didn't report?	Your employer apologises for failing to prevent the bullying/harassment Your employer advises the organisation that such conduct had occurred, and it was unacceptable	Select all that apply

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Intent	Question	Response	Response type
		Your employer develops or changes the existing policy on bullying/harassment - (e.g. complaint procedure) Your employer implements training or education Other actions (please specify)	
		It wasn't serious enough I was embarrassed I was afraid that my report would not be believed or taken seriously I was afraid that my relationships at work would be negatively affected I was afraid that my career negatively impacted. Other, please specify	
Q9. Job quality	Job quality: This part asks about psychosocial quality of your job. For each item below, please indicate how much you agree or disagree with the statement.		Mandatory Select one
	[Job demands and complexity] My job is more stressful than I had ever imagined. My job is complex and difficult. My job is demanding and fast paced. My job often requires me to learn new skills. I use many of my skills and abilities in my current job. I regularly do work outside of my worktime.	Strongly disagree Disagree Somewhat disagree Neither agree nor disagree Somewhat agree Agree Strongly agree	
	[Job control] I have a lot of freedom to decide how I do my own work.	Don't know/ not applicable	Page 51 of 64

Intent	Question	Response	Response type
	I have a lot of say about what happens on my job.		
	I have a lot of freedom to decide when I do my work.		
	[Job security]		
	l have a secure future in my job.		
	The place I work for will still be in business 5 years		
	from now.		
	I worry about the future of my job.		
	[Effort reward fairness]		
	get paid fairly for the things I do in my job.		
	[Burnout]		
	I feel drained by my work.		
	l worry about work when I am not working.		
	I find it hard to disconnect from work.		
Q10. Work	Work Health and Safety awareness: This part explores		Mandatory
health and	your awareness of work health and safety, e.g.,		Select one
safety	hazards, the rights and responsibilities of both		
awareness	employees and employers.		
	For each item below, please indicate how much you		
	agree or disagree with the statement.		
	At my workplace		
	l am clear about my rights and responsibilities in		
	relation to workplace health and safety.	Strongly disagree	
	I am clear about my employer's rights and	Disagree	
	responsibilities in relation to workplace health and	Neither agree nor disagree	
	safety.	Agree	
	I know how to perform my job in a safe manner.	Strongly agree	
	If I became aware of a health or safety hazard at my		
	workplace, I know who (at my workplace) I would	Don't know / not applicable	
	report it to.		
	I have the knowledge to assist in responding to any		
	health and safety concerns at my workplace.		
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Intent	Question	Response	Response type
	I know what the necessary precautions are that I		
	should take while doing my job.		
Q11.	Participation in work health and safety: This part		Mandatory
Participation in	explores your ability to ask questions about, and		Select one
work health	participate in, health and safety at work.		
and safety	For each item below, please indicate how much you		
	agree or disagree with the statement.		
	At my workplace		
	I feel free to voice concerns or make suggestions		
	about workplace health and safety at my job.	Strongly disagree	
	If I notice a workplace hazard, I would point it out to	Disagree	
	management.	Neither agree nor disagree	
	I know that I can stop work if I think something is	Agree	
	unsafe and management will not give me a hard time.	Strongly agree	
	If my work environment was UNSAFE, I WOULD NOT		
	say anything, and hope that the situation eventually	Don't know / not applicable	
	improves.		
	I have enough time to complete my work tasks safely.		
	I have a good working relationship with my manager.		
Q12. Work	Workplace policies and procedures: This part asks		Mandatory
health and	about the kinds of policies and systems in place to		Select one
safety policies	make the workplace safe.		
and procedures			
	For each item below, please indicate how much you		
	agree or disagree with the statement.		
	At my workplace		
	Everyone receives the necessary health and safety	Strongly disagree	
	training when starting a job, changing jobs, or using	Disagree	
	new techniques.	Neither agree nor disagree	
	There is regular communication between workers and	Agree	
	management about health and safety issues.	Strongly agree	

Intent	Question	Response	Response type
	Systems are in-place to identify, prevent and deal with hazards at work. There is an active and effective health and safety committee, and/or health and safety representative. Incidents and accidents are investigated quickly in order to improve workplace health and safety. Communication about workplace health and safety procedures is done in a way that I can understand. Workplace health and safety is considered to be at least as important as production and quality in the way work is done.	Don't know/ not applicable	
Q13. Organisation's Commitment and Practice	Commitment to health and safety: This part asks about your organisation's WHS commitment and practice. For each item below, please indicate how much you agree or disagree with the statement. At my workplace Supervisors are supported to make decisions to aid the physical and psychological safety of all workers. Leaders demonstrate a commitment to healthy work creating a strong safety culture. Systems are in-place to proactively manage hazards that could affect my mental health. WHS is a priority when new technology is introduced, including assessing and managing risks; consulting and communicating with workers; and conducting training in the safe use. I have confidence that my privacy and confidentiality is protected when new technology is introduced.	Strongly disagree Disagree Neither agree nor disagree Agree Strongly agree Don't know / not applicable	Mandatory Select one

Intent	Question	Response	Response type
	Systems are in place to manage WHS in support of		
	flexible work practices and flexible work		
014 Barriers	What stands in the way of good WHS practice at your		Mandatory
and enablers	work?		Select all that
for good WHS	Please select all that apply.	[tick those applicable]	apply
practice	Limited understanding of the WHS obligations		
	It's too complex, I don't know where to start		
	Limited knowledge of the specific risks and hazards		
	Time constraints or lack of resources		
	No expertise to manage WHS		
	Prioritising items believed to be more important over		
	Work health and safety		
	What drives good WHS practice at your work?		
	Please select all that apply.		
	Return on investment, safe business is good business		
	Adequate resources including people and safety		
	equipment		
	Risk assessment and active management		
	Communication and consultation with all workers		
	I raining and education		
	GOOD reporting systems		
	Other [free format field]		
	Unsure		
			Page 55 OT 64

Intent	Question	Response	Response type
	What would make WHS more of a priority at your work? Please select all that apply. If it was more valued by workers If it was more valued by customers and investors If it was more financially rewarding If it was simpler to understand If we thought we were at risk of getting caught by the regulator If we thought someone might get seriously hurt If it would impact on the business's reputation Other [free format field] Unsure		
Future of Work			
Q15. Changes	In the past six months, have you experienced or witnessed any new or emerging health and safety issues? Please select all that apply. Issues from new or emerging ways of working or types of work Issues from new or emerging technologies or workplace innovations Issues from new or emerging behaviours, attitudes, or practices (either yours or other people in your workplace) Other new or emerging issues None of the above	[Select all that apply]	Mandatory
Q15.1.a	[skip if Types of work have not been selected in Q15.1] Would you be able to provide more detail about the different issues you chose in the previous question?	[Free input]	Text input Mandatory

Intent	Question	Response	Response type
Q15.2.b	[skip if Technologies have not been selected in Q15.2]	[Free input]	Text input
	Would you be able to provide more detail about the		Mandatory
	different issues you chose in the previous question?		
	unrerent issues you chose in the previous question:		
Q15.3.c	[skip if Behaviours have not been selected in Q15.3]	[Free input]	Text input
			Mandatory
	Would you be able to provide more detail about the		
	different issues you chose in the previous question?		
Q15.4.d	[skip if Other have not been selected in Q15.4]	[Free input]	Text input
			Mandatory
	Would you be able to provide more detail about the		-
	different issues you chose in the previous question?		
Q16.	In the past six months, have you seen anything new		Mandatory
	that can improve health and safety in your workplace?		
	Please select all that apply.		
	New WHS guides, resources, or materials	[Select all that apply]	
	New legislation or codes of practices in Australia or		
	Internationally		
	New technology that has the potential to prevent		
	Other new colutions that have the potential to provent		
	barm		
	None of the above		
0161a	[skip if Resources and materials has not been selected	[Text input]	Text input
QTOING	in 016.11		Mandatory
			· · · · · · · · · · · · · · · · · · ·
	Would you be able to provide more detail about the		
	different issues you chose in the previous question?		

Intent	Question	Response	Response type
Q16.2.b	[skip if Legislation has not been selected in Q16.2]	[Text input]	Text input
	Would you be able to provide more detail about the		Mandatory
	different issues you chose in the previous question?		
Q16.3.c	[skip if Technology has not been selected in Q16.3]	[Text input]	Text input
	Mould you be able to provide more datail about the		Mandatory
	different issues you choose in the provide guestion?		
	different issues you chose in the previous question?		
Q16.4.d	[skip if Other has not been selected in Q16.4]	[Text input]	Text input
			Mandatory
	Would you be able to provide more detail about the		
	different issues you chose in the previous question?		
017 General	Is there anything else you have seen in regard to work	[Text input]	Select one
observations	health and safety that you would like to flag?		Mandatory
	Please click 'Next' if you don't have anything extra to		, , , , , , , , , , , , , , , , , , ,
	add.		
About you			
Please tell us a l	ittle bit more about vou.		
We won't be able	e to identify you individually by the information you've pro	ovided.	
However, you on	ly have to share what you are comfortable sharing.		
Q18. Gender	What gender do you identify as?	Male	Optional
		Female	Select one
		Non-binary	Text input
		Profer pot to cov	
Q19. Age	What is your age group?	18 to 24	Optional

Intent	Question	Response	Response type
		25 to 34 35 to 44 45 to 54 55 to 64 65 or over Prefer not to say	Select one
Q20. Education	What is your highest level of education?	Year 11 or below Year 12 Trade Certificate/ Certificate III/IV Advanced Diploma/Diploma Bachelor's degree Graduate Diploma/Graduate Certificate Postgraduate Degree Prefer not to say	Optional Select one
Q21. Diversity	Do identify as being part of any of the following communities? Please select all that apply.	LGBTQI+ Aboriginal or Torres Strait Islander Culturally and/or linguistically diverse Migrant or temporary resident People living with a disability None of the above Prefer not to say	Optional Select all that apply
Q22. Language	Which language did you first speak as a child?	English Other, please specify [Text input] Prefer not to say	Optional Select one

Appendix B: Survey Engagement Strategy

Framework

Preceding the development of the Engagement Plan for this iteration of the National WHS Survey, and utilising the learnings from the iteration run in Autumn 2023 edition, an evaluative framework was developed as an oversight for all future versions of the survey.

The intention of this framework is to design goals and measures that can:

- 1. Guide the development of distribution strategies for each survey iteration;
- 2. Act as long-term measurement tool for survey participation over time; and
- 3. Improve the rigor of the survey by increasing participation.

The framework supports the overarching goals of the Radar initiative in gathering WHS insights from diverse information sources.

The framework identifies constants that will be measured across all survey iterations, including:

- Target audience groups representative of high-risk and vulnerable groups who sometimes struggle to be represented in quantitative data;
- Target figures based on a stratified approach, aiming for representation from groups that is statistically significant; and
- Specified metrics providing measurements for each audience group related to survey completion and attrition.

Channels

Engagement with the National WHS Survey was encouraged through a range of channels that fell into the following categories.

- Owned channels that are coordinated and branded to the Centre for Work Health and Safety (the Centre);
- Earned channels controlled by different entities who distributed content on the Centre's behalf; and
- Paid any channel where advertising was transactional.

The channel types included social media channels, websites, emails (i.e. contact lists), paid social ads, newsletter inclusions, and direct network contacts.

Tracking

In order to get an understanding of audience traffic, audience group, and completion rates, URL tracking tags were used using Qualtrics inbuilt tracking capabilities.

To ensure anonymity, all factors that could link individual identity to responses were removed from the process. That is, only the Science Outreach team were able to link tracking tags to specific content, and only the Evaluation team were able to see responses, which were anonymised in any case.

Results

Broken down by medium, social media provided the highest response rate, however paid ads received the highest click-throughs, as set out in the table below.

Medium	Total starts	Completes	Incompletes	Completion rate
Email	188	153	35	81.38%
Paid	1124	591	533	52.58%
Referral	75	59	16	78.67%
Social	962	724	238	75.26%
No medium specified	18	13	5	72.22%

Considering distribution channels and response, despite having such a high start rate, paid ads through Facebook saw a low completion rate. One of the most notable channels was through other Department of Customer Service social media streams, receiving a total of 603 starts with a completion rate of 73.47%.

When looking at channel categories:

- highest completion rate sat in Owned channels;
- most completions came through Paid channels;
- but the best overall performance came through Earned channels.

Channel category	Total starts	Completes	Incompletes	Completion rate
Owned	585	463	122	79.15%
Earned	640	473	167	73.91%
Paid	1124	591	533	52.58%

Considering targeted industries, there was an overall lower than average completion rate across all industries. That is not to be confused with the overall industry totals which had a high overall completion rate (83.02%), this is just citing those individuals who were targeted specifically through paid ads.

Target industry	Total starts	Completes	Incompletes	Completion rate
Arts and Recreational	82	39	43	47.56%
Services				
Construction	98	51	47	52.04%
Healthcare	124	78	46	62.90%
Manufacturing	13	5	8	38.46%
Professional, Scientific	329	189	140	57.45%
and Technical Services				
Transport, Postal and	238	94	144	39.50%
Warehousing				

Moving forward, we will be able to track the success of the Engagement Strategy over time, between iterations of the survey, using the evaluative framework that has been developed.

Appendix C: Methods to calculate OHSVM sub-scales, psychosocial job quality adversity and normalised index scores.

OHSVM: including 4 sub-scales Exposure to hazards, policies and procedures (PP), awareness (AW), and empowerment (EM); and an overall vulnerability.

- The sub-scale Exposure to hazards includes 10 statements asking survey participants to respond to their frequency (ranging from never, once a year, every 6 months, every 3 months, every month, every week to every day) of exposure to various hazards at their workplace. A worker was considered "exposed to hazards" in the workplace if they reported:
 - experiencing two or more of the ten hazards (noting that bullying and harassment were separated) weekly or more often, or
 - experiencing at least one of the following weekly or more often:
 - work involving lifting or carrying 20kg at least 10 times a day,
 - work at heights greater than two metres,
 - work with hazardous substances such as chemicals, flammable liquids, and gases,
 - being bullied, or
 - being harassed at work.
- In the other sub-scales, there are seven statements for PP, six for AW and five for EM. Participants were asked to provide their level of agreement in five-point Likert scale, from strongly disagree (1) to strongly agree (5). A worker was considered to have met criteria for "inadequate PP", "inadequate AW", or "inadequate EM" if they:
 - disagreed or strongly disagreed with one or more of the statements within each sub-scale.
 - For overall vulnerability, a worker was considered "vulnerable" if they reported:
 - having "exposed to hazards" in the workplace; and
 - "inadequate" for one or more of PP, AW or EM.

Psychosocial Job Quality Index (PJQI): There are four sub-scales within PJQI indicating measures for (1) Job demands and complexity, (2) Job control, (3) Job security and (4) Effort reward fairness. Similar to OHSVM, there are a number of statements within each sub-scale (4 on job demands and complexity, 3 on job control, 3 on job security and 1 on effort reward fairness). Binary variables were created to dichotomise the PJQI sub-scales into "high" job

demand, "low" job control, "low" job security and "unfair" effort-reward based on the total score for each sub-scale. The total score for each sub-scale was the sum of all the responses to the statements within that sub-scale. When there were one or more, but not all missing values within a sub-scale, they would be imputed using the average values across other statements within the same sub-scale. If all responses were missing, the sub-scale score would be coded as missing.

- The binary variable for "high" job demand for a worker would take the value of 1 when their total score for job demand and complexity sub-scale was greater than a cut-off point, which is the <u>fourth quartile</u>, corresponding to the greatest difficulty.
- The binary variable for "low" job control (and similarly for "low" job security and "unfair" effort-reward) for a worker would take the value of 1 when their total score for job control sub-scale was smaller than the cut-off point, corresponding to the greatest difficulty, which is the <u>first quartile</u> for this sub-scale.
- The overall PJQ index was derived as the sum of the four binary variables above, indicating the number of adversities. Optimal jobs had 0 adversity, whereas poor jobs had 3 or more adversities.

Normalised index scores:

- Burnout Index ranging from 0 (no burnout) to 100 (complete burnout) was calculated as the average score of responses to three statements on burnout (Strongly disagree = 0; Disagree = 25; Neither = 50; Agree = 75; Strongly agree = 100).
- WHS Awareness Index, similarly, is the average score of responses six statements on AW.
- WHS Empowerment Index is the average score of responses to six statements on EM.
- WHS System Index is the average score of responses to seven statements on PP.
- WHS Commitment Index is the average score of responses to six statements on commitment.